



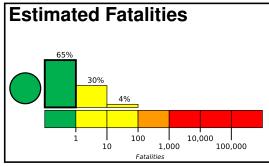


**PAGER** Version 2

Created: 2 hours, 3 minutes after earthquake

# M 6.2, 11 km SSE of Iray, Peru

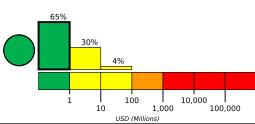
Origin Time: 2023-12-20 12:11:20 UTC (Wed 07:11:20 local) Location: 15.9595° S 72.6028° W Depth: 93.4 km



and economic losses. There is a low likelihood of casualties and damage.



Green alert for shaking-related fatalities Estimated Economic Losses



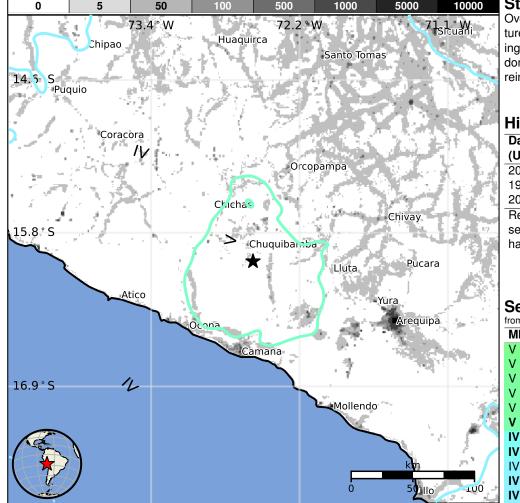
**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	51k*	2,023k	71k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

### Population Exposure

population per 1 sq. km from Landscan



#### PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us7000lkb1#pager

### **Structures**

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

## **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2001-12-04	70	5.8	VI(32k)	2
1981-04-18	369	5.5	VI(193k)	8
2001-06-23	106	8.4	VIII(179k)	48

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

### Selected City Exposure

from GeoNames.org MMI City Population Corire Pampacolca < 1kAndaray <1kIray <1kHuancarqui <1kChuquibamba <1k**Arequipa** 841k IV Mollendo 29k

Sicuani bold cities appear on map.

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Moquequa

(k = x1000)

55k

53k

34k

Event ID: us7000lkb1